

AIR CONDITIONING SYSTEM

Model: IMDI-60/UMLT-60
V1MDI/U1MRT-60

Wired Controller of Duct Unit **Owner's Manual**

Thank you for choosing
INVENTOR air conditioning
system. For correct use of
this unit, please read this
manual carefully and keep it
for future reference.



- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.
- The wired controller will reset to factory setting with auto mode, auto fan and 24°C(76°F) setting temperature when the air conditioner restarts after power failure.
And this may cause inconsistent displays on the wired controller and on the air conditioner. You need to readjust the running status through the wired controller.



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1. SAFETY PRECAUTIONS

The following contents are stated on the product and the operation manual, including usage, precautions against personal harm and property loss, and the methods of using the product correctly and safely. After fully understanding the following contents (identifiers and icons), read the text body and observe the following rules.


■ Identifier description


Identifier	Meaning
 Warning	Means improper handling may lead to personal death or severe injury.
 Caution	Means improper handling may lead to personal injury or property loss.
<p>[Note]: 1. “Harm” means injury, burn and electric shock which need long-term treatment but need no hospitalization 2. “Property loss” means loss of properties and materials.</p>	

■ Icon description

Icon	Meaning
	It indicates forbidding. The forbidden subject-matter is indicated in the icon or by images or characters aside.
	It indicates compulsory implementation. The compulsory subject-matter is indicated in the icon or by images or characters aside.

Warning

 Warning	Delegate installation	Please entrust the distributor or professionals to install the unit. The installers must have the relevant know-how. Improper installation performed by the user without permission may cause fire, electric shock, personal injury or water leakage.
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 Usage Warning	Forbid	Do not spray flammable aerosol to the wire controller directly. Otherwise, fire may occur.
	Forbid	Do not operate with wet hands or let water enter the wire controller. Otherwise, electric shock may occur.

2. SUMMARIZE

Usage condition:

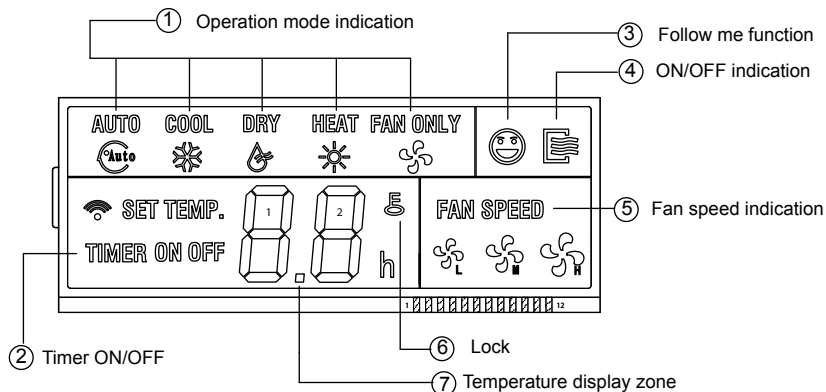
1. Power supply: 5V DC.
2. Operation temperature:
-15°C (-5°F) ~ +43°C (+109°F).
3. Operation humidity: 40%-90%, RH.

3. FUNCTION SUMMARY

Main function:

1. Connecting to indoor unit by A, B, C, D, E terminals.
2. Button setting action mode.
3. LCD display.
4. Timer for rest time.

4. NAME AND FUCTION OF INDICATORS ON THE CONTROLLER



① Operation mode indication:

When press " MODE " button, the following mode can be selected in circle. Auto →Cool →Dry→Heat→Fan only→Auto. For cooling only model,heat mode is skipped.

② Timer :

When adjust setting on time or only on time is set, the "ON" is lighted.

When adjust setting off time or only off time is set , the "OFF" is lighted. If on and off timer are both set, the"ON" and "OFF"are both lighted.

③ Follow me function:

There is a temperature sensor inside the wire controller, after setting temperature, it will compare the two temperatures, and the space of wire controller will be

the same as setting temperature. It is available under cooling, heating, auto mode.

④ ON/OFF indication :

When it is on, the icon display, otherwise it is extinguished.

⑤ Fan speed indication :

There are four fan modes : low, middle, high, auto. For some models, no middle fan then the middle fan is seen as high

speed.

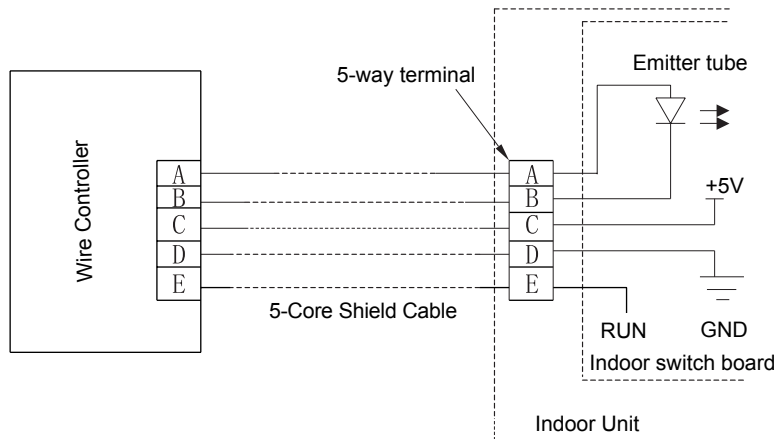
⑥ Lock:

When the " LOCK " button is pressed, the icon appear and other buttons is unable, press again, the icon disappear.

⑦ Temperature display zone:

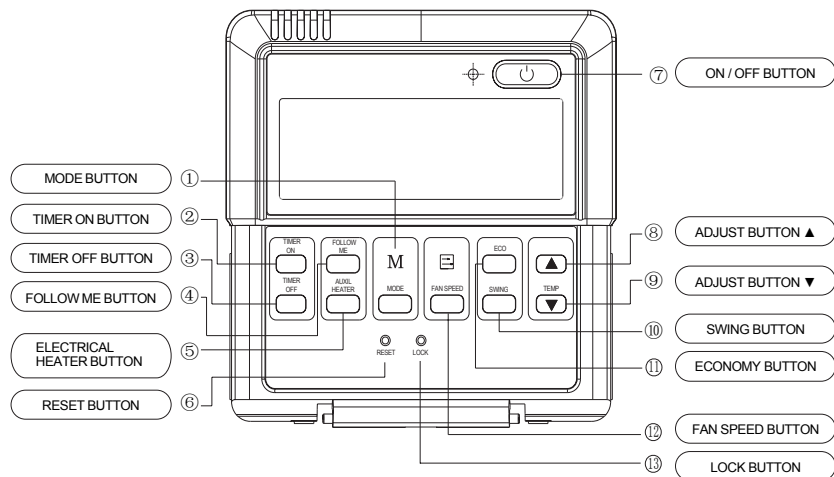
Generally it displays setting temperature, it can be adjusted by press temperature button ▲ and ▼. But in fan mode, no display here.

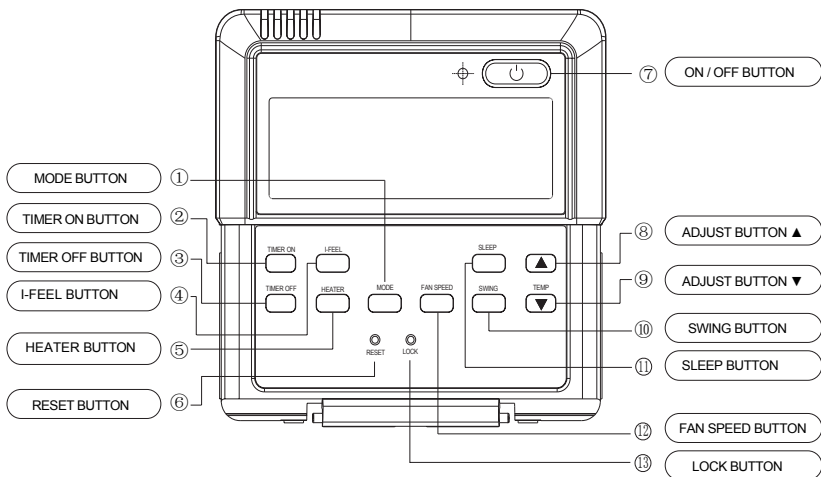
5. INSTALLATION METHOD



When a wire controller is needed, a small 5-way terminal should be added, fix an infrared emitter with gumwater near the receiver on the switch board. Connect its anode and cathode to A and B, and +5V, GND, RUN to C, D, E on the switch board.

6. NAME AND OPERATION OF THE BUTTON ON THE WIRE CONTROLLER





NOTE

All the pictures in this manual are for explanation purpose only. There may be slightly different from the wire controller you purchased(depend on model). The actual shape shall prevail.

① Mode button:

When press this button, the operation mode change as the following sequence:

→AUTO → COOL→DRY→HEAT→FAN →

Remark: For the cooling only model, the heating mode is skipped.

② Timer on button :

Press this button, timer on function is active. Then every press, the time increase 0.5h, after 10h, 1h increasement after each press. If cancel this Function, just set it to "0.0" .

③ Timer off button:

Press this button, timer off function is active. Then every press, the time increase 0.5h, after 10h, 1h increasement after each press. If cancel this function, just set it to "0.0" .

④ Follow me button / I-FEEL button:

When under cool, heat and auto mode, press this button, follow me function is active. Press again, this function is ineffective.

⑤ Electrical heater button/Heater button :

If press this button in heat mode, electrical heater function become ineffective.

⑥ Reset button(hidden):

Use a 1mm stick to press in the little hole , then the current setting is canceled . The wire controller enter into original state.

⑦ ON/OFF button:

When in off state, press this button, the indicator is on, the wire controller enter into on state, and send setting information to indoor Pcb. When in on state, press this button, the indicator is off, and send instruction. If timer on or timer off has been set, it cancel this setting then send instruction to stop the machine.

⑧ Adjust button ▲:

Set indoor temperature up. If press and hold on, it will increase at 1°C(2°F) per 0.5 second.

⑨ Adjust button ▼ :

Set indoor temperature down . if press and hold on, it will decrease at 1°C(2°F) per 0.5 second.

⑩ Swing button:

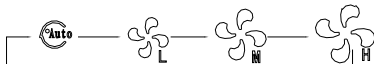
First press, start swing function;second press, stop swing. (Match to some model with swing function).

⑪ Economy operation button / Sleep button:

press this button, the indoor unit operates in economy mode, press again, exit this mode (it may be ineffective for some models)

⑫ Fan speed button:

press this button consecutively, the fan speed will circle as follow:



⑬ Lock button(hidden):

When you push the LOCK button, all current settings are locked in and the wire controller does not accept any operation except that of the LOCK button. Use the lock mode when you want to prevent setting from being changed accidentally or play fully. Push the LOCK button again when you want to cancel the LOCK mode.

7. USING METHOD

AUTOMATIC OPERATION

Connect to power,indoor operation lamp flash.

1. Press "MODE" button, select "AUTO";
2. Press the button "▲" and "▼", set temperature you want, generally it is among 17°C(62°F)~30°C(88°F);
3. Press " ON/OFF" button, operation lamp is on, the air-conditioner work in auto mode, indoor fan is auto, and can not be changed. Auto is displayed on LCD. Press ON/OFF button again to stop.
4. Economy operation is valid in auto mode.

COOL/HEAT/FAN MODE OPERATION

1. Press "MODE" button, select "COOL", "HEAT" or "FAN ONLY" mode.
2. Press temperature adjust button to select setting temp..

3. Press "FAN SPEED" button to select high/mid/low/auto.

4. Press "ON/OFF" button, indoor unit operation lamp on, it works in selected mode. Press "ON/OFF" button again, it stops to work.

Remark: When in fan mode, no temperature can be set.

DRY OPERATION

1. Press "MODE" button, select "DRY" mode.

2. Press temperature adjust button to select setting temp.

3. Press "ON/OFF" button, indoor unit operation lamp on, it works in dry mode. Press ON/OFF button again, it stops to work.

4. In dry mode, economy operation and fan speed are ineffective.

TIMER SETTING

Timer on only:

1. Press "TIME ON" button, it display "SET" on LCD, and display "H" and "ON", it is waiting for timer on setting.

2. Press "timer" on button repeatedly to adjust time setting.

3. If press this button and hold on, the time will increase at 0.5h, after 10h, it increase at 1h.

4. After setting 0.5 second, the wire controller send timer on information, it is finished.

Timer off only:

1. Press "TIME OFF" button, it display "SET" on LCD, and display "H" and ON, it is waiting for timer on setting.

2. Press "TIME OFF" button repeatedly to adjust time setting.

3. If press this button and hold on, the time will increase at 0.5h, after 10h, it increase at 1h.

4. After setting 0.5 second, the wire controller send timer off information, it is finished.

TIMER ON AND TIMER OFF BOTH

1. Set timer on time as the corresponding step1 and 2.

2. Set timer off time as the corresponding step1 and 2.

3. Timer off time must be longer than timer on time.

4. 0.5 second after setting, the wire controller send information.the setting is finished.

CHANGE TIMER

If there is a need of changing timer time, press corresponding button to revise it. If cancel timer, change timer time to 0.0.



NOTE

The timer time is relative time,that is delay after setting time(i, e: setting time is 8:05 A,M). So when timer is set, the standard time can not be adjusted.

8. TECHNICAL INDICATION AND REQUIREMENT

EMC and EMI comply with the CE certification requirements.

